FIG. 1

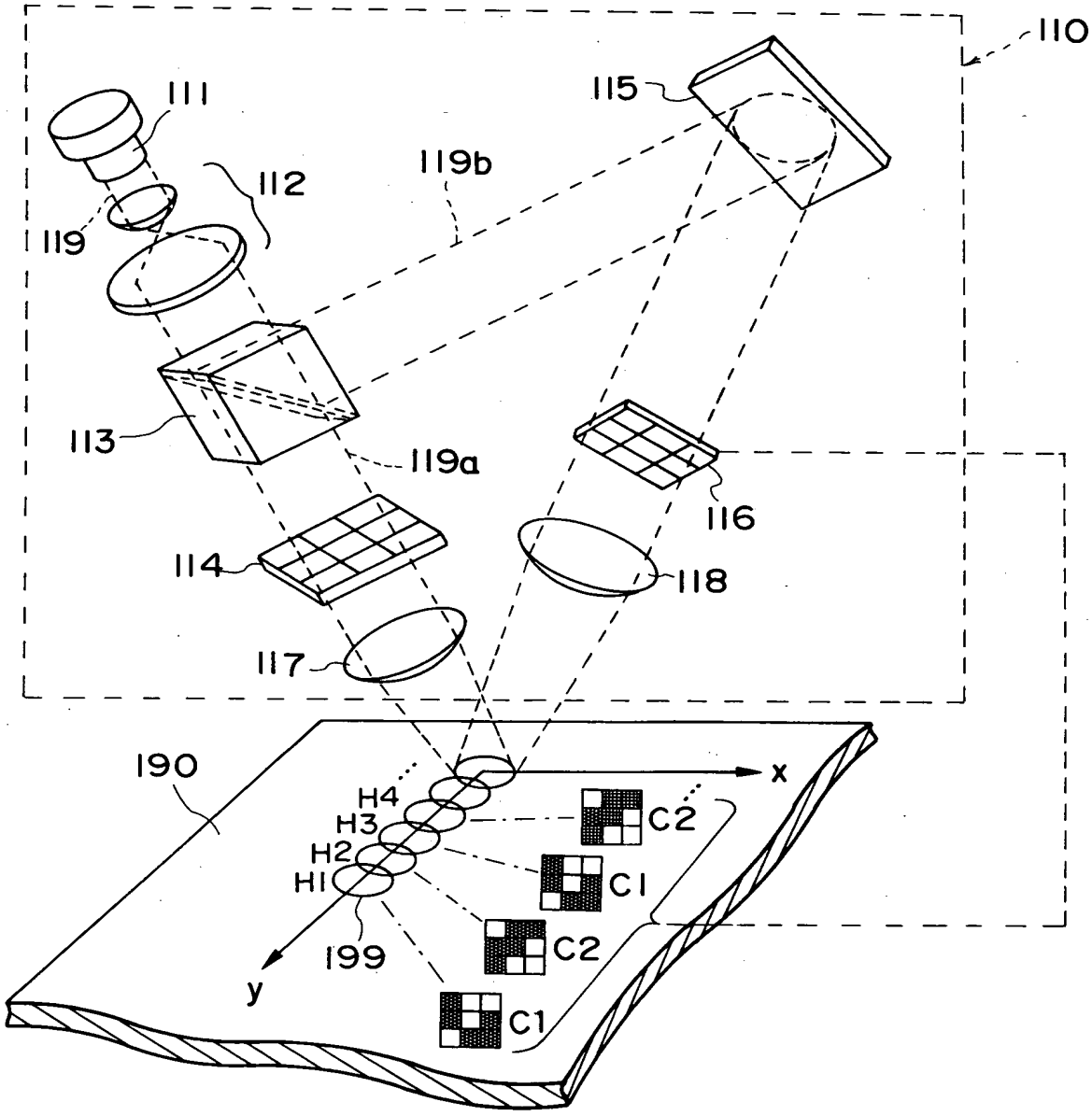

100
110
111
112
119
119b
115
113
119a
116
114
118
117
190
x
y
H4
H3
H2
H1
199
C2
C1
C2
C1

FIG.2

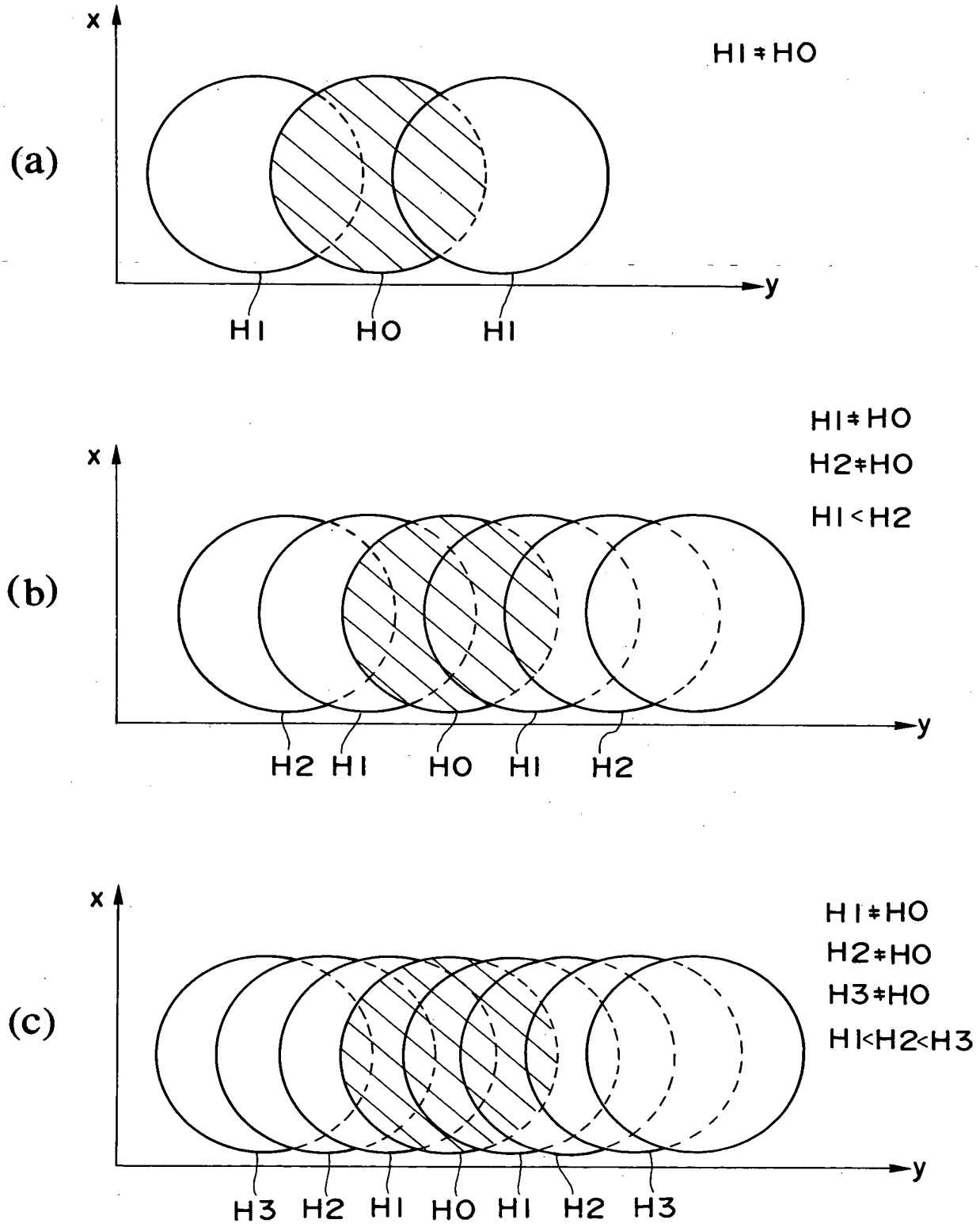

(a)
x
y
H1≠H0
H1
H0
H1
(b)
x
y
H1≠H0
H2≠H0
H1<H2
H2
H1
H0
H1
H2
(c)
x
y
H1≠H0
H2≠H0
H3≠H0
H1<H2<H3
H3
H2
H1
H0
H1
H2
H3

FIG.3

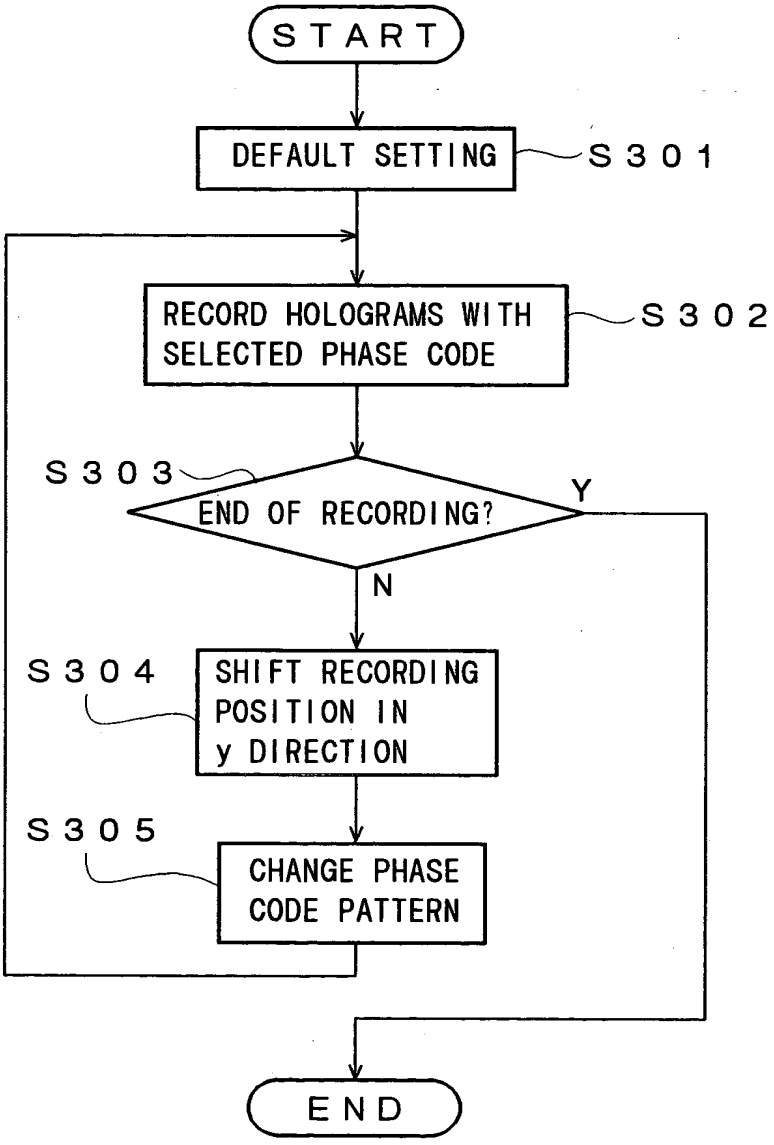

START
DEFAULT SETTING
S301
RECORD HOLOGRAMS WITH SELECTED PHASE CODE
S302
S303
END OF RECORDING?
Y
N
S304
SHIFT RECORDING POSITION IN y DIRECTION
S305
CHANGE PHASE CODE PATTERN
END

FIG.4

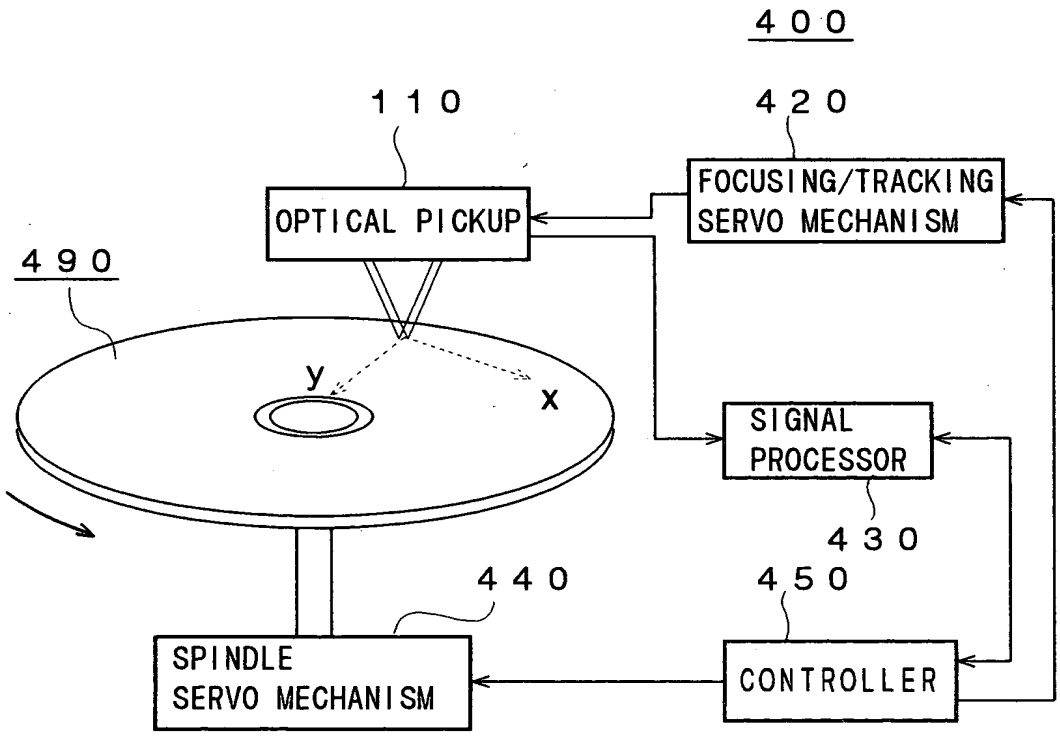

400
110
420
OPTICAL PICKUP
FOCUSING/TRACKING SERVO MECHANISM
490
y
x
SIGNAL PROCESSOR
430
440
450
SPINDLE SERVO MECHANISM
CONTROLLER

FIG.5

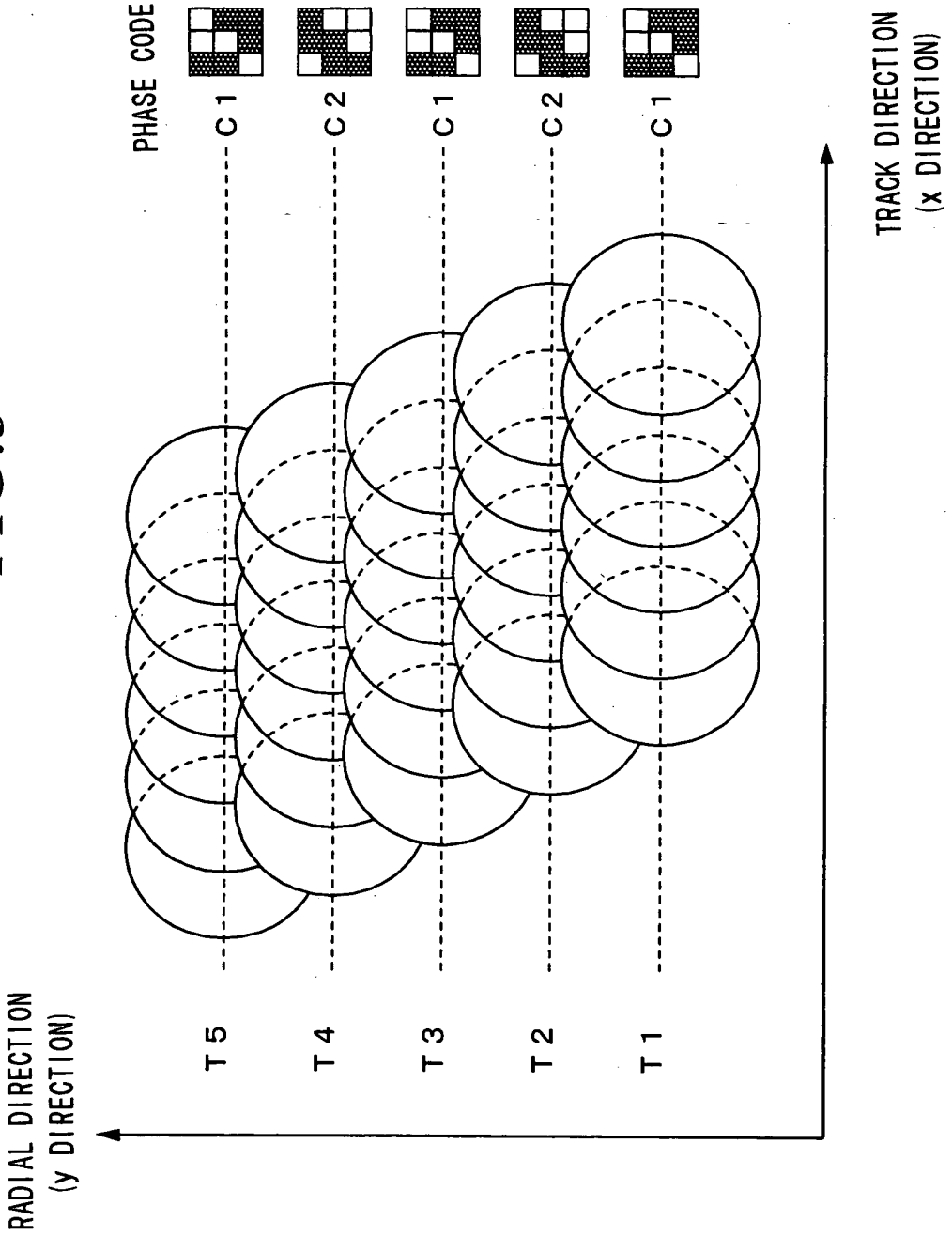

PHASE CODE
C 1
C 2
C 1
C 2
C 1
TRACK DIRECTION
(x DIRECTION)
RADIAL DIRECTION
(y DIRECTION)
T 5
T 4
T 3
T 2
T 1

FIG.6

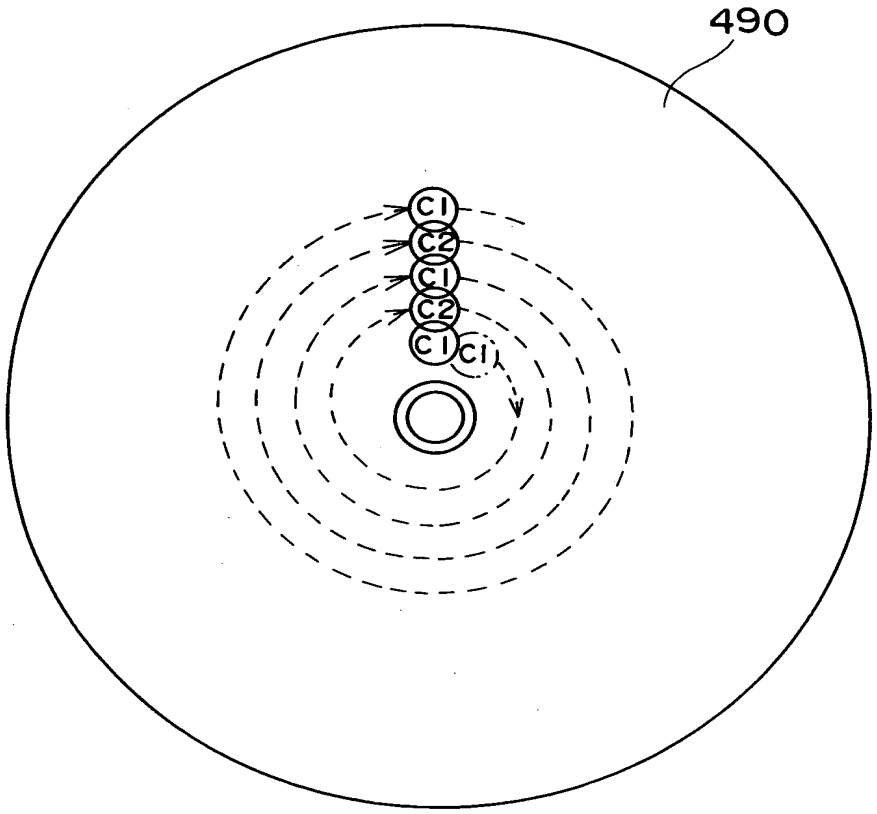


FIG.7

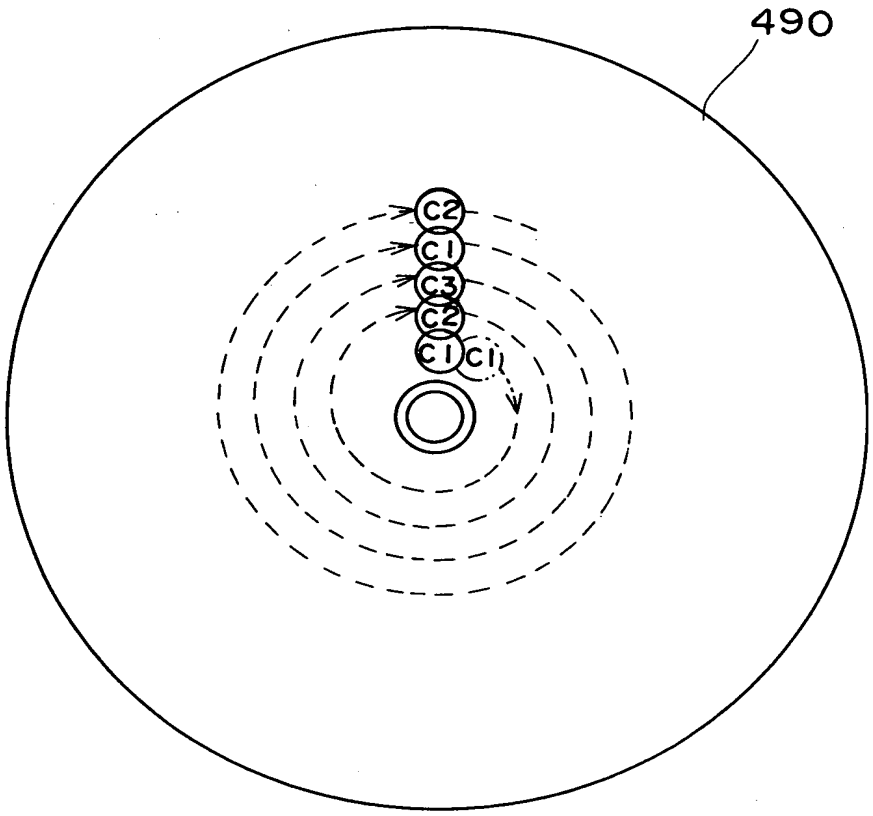


FIG.8

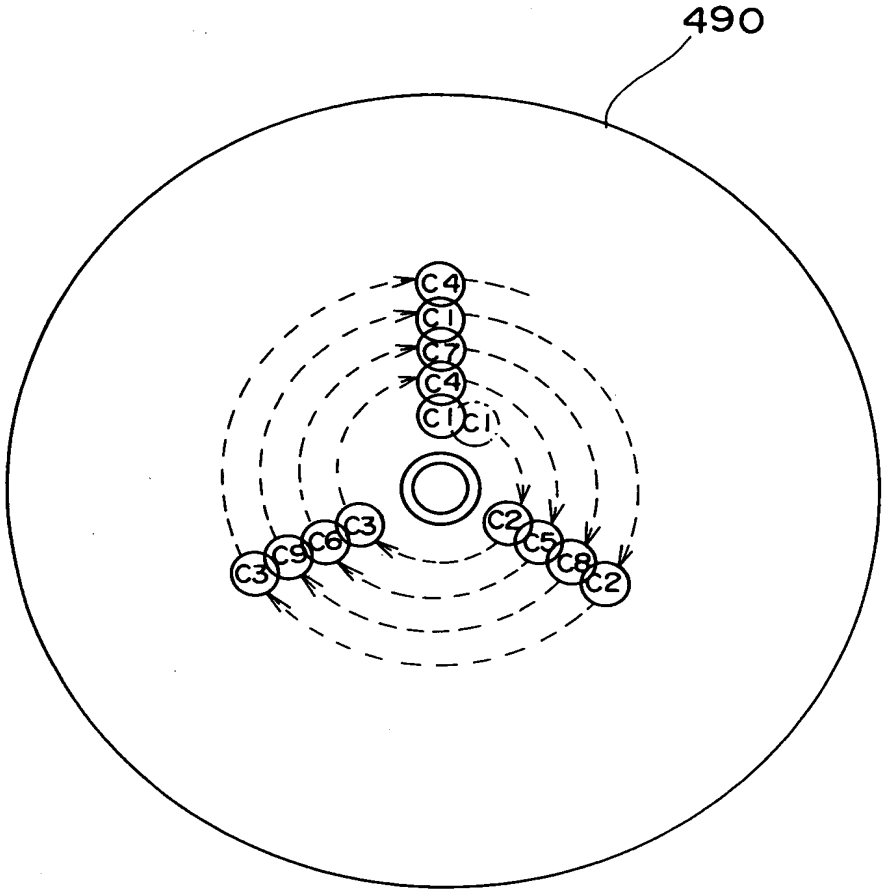


FIG.9

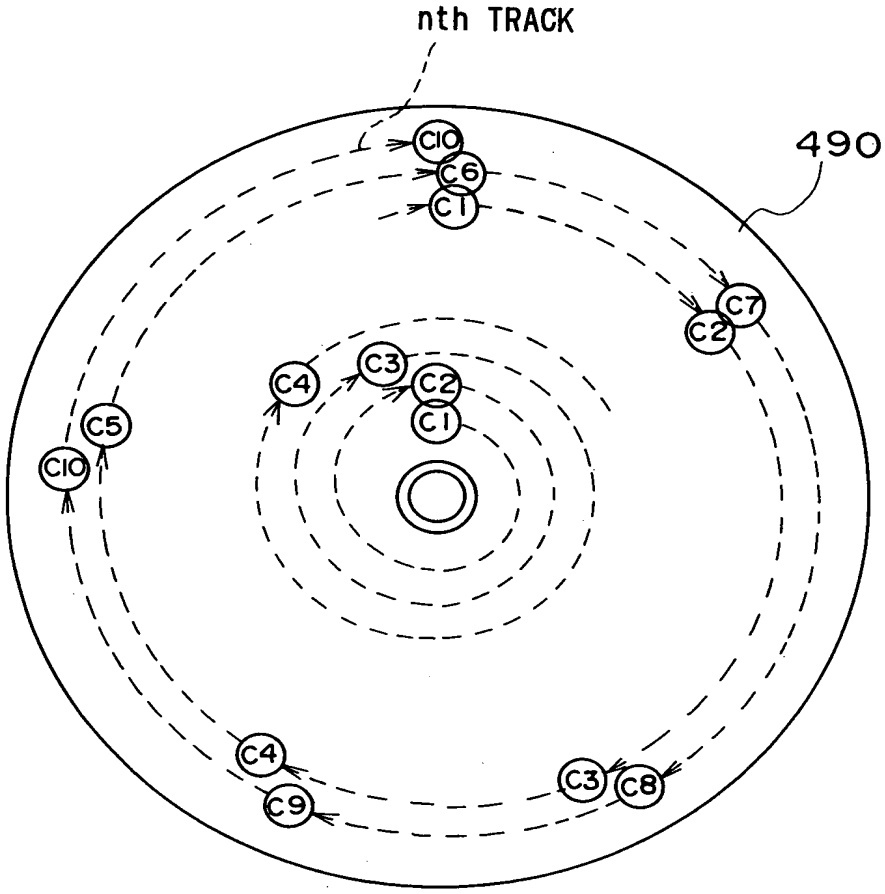


FIG. 10

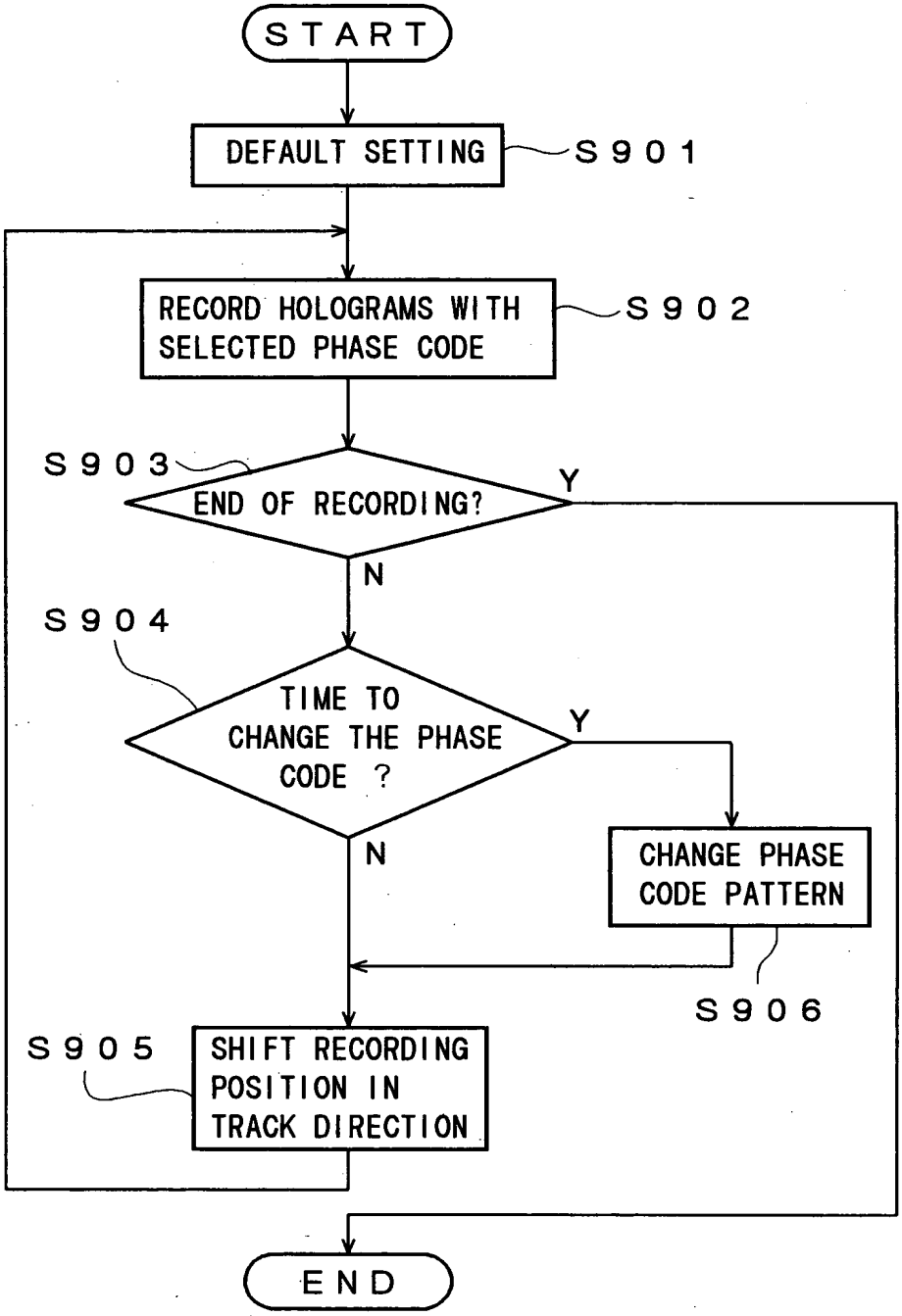
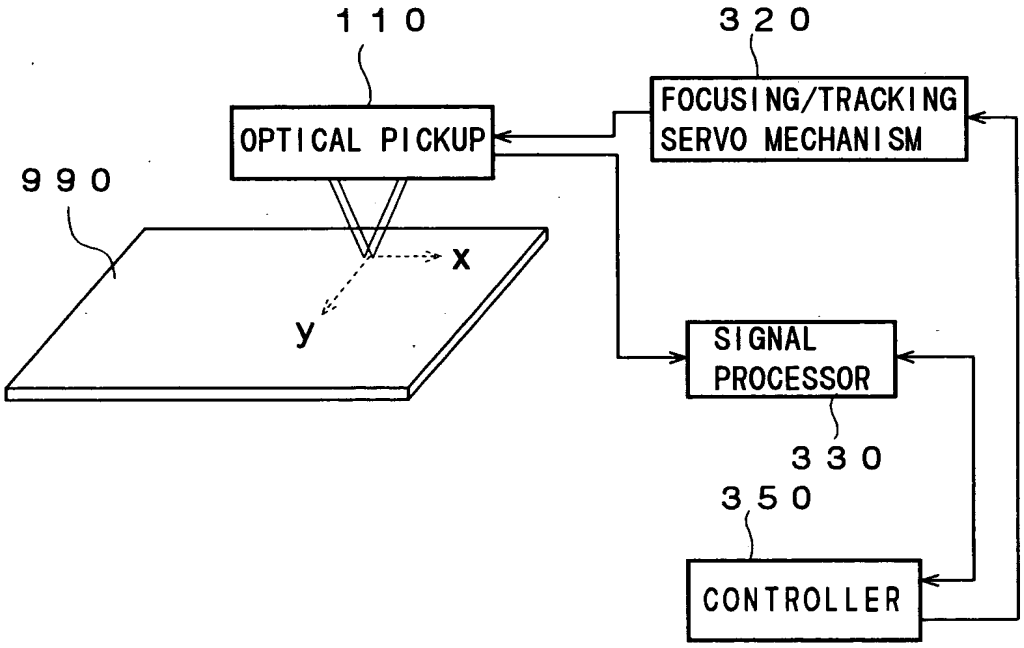

START
DEFAULT SETTING
S901
RECORD HOLOGRAMS WITH SELECTED PHASE CODE
S902
S903
END OF RECORDING?
Y
N
S904
TIME TO CHANGE THE PHASE CODE ?
Y
N
CHANGE PHASE CODE PATTERN
S906
S905
SHIFT RECORDING POSITION IN TRACK DIRECTION
END

FIG.11


110
320
FOCUSING/TRACKING SERVO MECHANISM
OPTICAL PICKUP
990
x
y
SIGNAL PROCESSOR
330
350
CONTROLLER